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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/743,634	12/22/2003	Renaud Capolunghi	136215	7419	
75	90 06/17/2005		EXAM	EXAMINER	
John S. Beulick			BRUCE, DAVID VERNON		
Armstrong Teasdale LLP			ART UNIT	PAPER NUMBER	
Suite 2600			1111 0111		
One Metropolita		2882			
St. Louis, MO 63102			DATE MAILED: 06/17/200	DATE MAILED: 06/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/743,634	CAPOLUNGHI ET AL.			
		Examiner	Art Unit			
		David V. Bruce	2882			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is FINAL. 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)🛛	Claim(s) <u>1-25</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	n from consideration.				
	Claim(s) is/are allowed.		·			
•	Claim(s) <u>1-3,7-12,16-20 and 24</u> is/are rejected.					
· ·	Claim(s) <u>4-6,13-15,21-23 and 25</u> is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
	The specification is objected to by the Examiner					
10)⊠	10)⊠ The drawing(s) filed on <u>23 December 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
11)	The ball of declaration is objected to by the Ex-	ammer. Note the attached Office	Action of format 10-132.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) 🛛 Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 20040804.		atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 10-12, 18-20, and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Acar *et al* US 2004/0136584 A1. Acar shows all of the features of the instant invention including taking 3D datasets of the colon in prone and supine orientations, extracting the colon from the datasets, synthesizing, synchronizing, and displaying the synthesized views which may include a 3D view of the colon (abstract, figure 1, paragraphs [0003], [0007], [0013], and claims 5-10). While Acar is silent on the actual display of the reconstructed colon image, Applicant's paragraph [0024] teaches that physical display is trivial and not necessary for practicing Applicant's invention.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 7-9 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Acar et al. US 2004/0136584 A1. Acar shows al of the features of the instant invention (as shown above) except for the specific combination views being shown (prone and supine, or 3D with 2D prone and 2D supine and endoscopic) and a second display after a user display layout preference modification. It is well know in virtual colonoscopy to display multiple 3D and 2D views along with an endoscopic view, and to allow the user to change display layout preference information (such as window position, magnification, view point, and view angle). It would have been obvious to one of ordinary skill in the art to allow the operator to change the display layout parameters and to display certain combinations of views simultaneously motivated by the desire to give the clinician maximum flexibility in viewing the collected data.

Allowable Subject Matter

- 5. Claims 4-6, 13-15, 21-23, and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter: as claimed with all additional claimed limitations, the allowable subject matter involves refining the colon extraction using specific user entered information, and the display of a 360° unfolded view of the colon. These features in combination are neither shown nor fairly suggested in the prior art.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Geiger US 2004/0209234 A1 shows path planning for virtual colonoscopy, and

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Sirohey et al. US 2005/0094858 A1 and Capolunghi et al. appear to be related to the present application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David V. Bruce whose telephone number is (571) 272-2487. The examiner can normally be reached on M - Th and alt Fri 8:00 - 4:30 subject to I-Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll_free).

David V Bruce Primary Examiner Art Unit 2882

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